

-1- (WPAT)

ACCESSION NUMBER
TITLE

DERWENT CLASSES

PATENT ASSIGNEE

PRIORITY

NUMBERS

PUBLICATION DETAILS

SECONDARY INT'L. CLASS.

ABSTRACT

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Battery electrode plate prodn. - having improved
volume efficiency, weight efficiency and cycle life

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In producing electrode plate composed of multiple
circular section electrodes having dia. ≤ 10 mu and
 ≥ 5000 mu process comprises (1) coating active
material mixed paste by passing line-formed collector
made of fibre or twisted fibre or knitted fibre
through the paste, (2) drying it, (3) exposing a
certain length of collector terminal by removing the
active material mixed agent from the electrode, (4)
bundling the collector terminals at a place and (5)
cutting the electrode plate into a certain length.

Volume efficiency, weight efficiency and cycle
life are improved. In an example, Ni electrode was
composed of Ni (OH)₂ 91 pts + acetylene black 9 +
polystyrene 4 + polymethylmethacrylate 3 +
chloroprene rubber 3 + toluene 180. hydrophilic
polymer soln. was composed of PVA 8 pts. + water 100.

Zn electrode was composed of Zn fine powder 97
pts. acetylene black 3 + polystyrene 3 +
polymethylmethacrylate 1 + chloroprene rubber 1 +
toluene 95.